## SEQUENCE LISTING

- <110> Elan Pharmaceuticals, Inc. Regents of the University of California Schenk, Dale B. Masliah, Eliezer
- <120> PREVENTION AND TREATMENT OF SYNUCLEINOPATHIC DISEASE
- <130> 015270-008930US
- <140> US 10/
- <141> 2003-10-31
- <150> US 60/423,012
- <151> 2002-11-01
- <150> US 60/137,010
- <151> 1999-06-01
- <150> US 09/580,015
- <151> 2000-05-26
- <150> US 09/585,817
- <151> 2000-06-01
- <160> 57
- <170> PatentIn version 3.1
- <210> 1
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- <212> PRT
- <213> Homo sapiens
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- Ala Ala Glu Lys Thr Lys Gln Gly Val Ala Glu Ala Ala Gly Lys 20 25 30
- Thr Lys Glu Gly Val Leu Tyr Val Gly Ser Lys Thr Lys Glu Gly Val 35 40 45
- Val His Gly Val Ala Thr Val Ala Glu Lys Thr Lys Glu Gln Val Thr 50 55 60
- Asn Val Gly Gly Ala Val Val Thr Gly Val Thr Ala Val Ala Gln Lys 65 70 75 80
- Thr Val Glu Gly Ala Gly Ser Ile Ala Ala Ala Thr Gly Phe Val Lys 85 90 95

Lys Asp Gln Leu Gly Lys Asn Glu Glu Gly Ala Pro Gln Glu Gly Ile 105 100 Leu Glu Asp Met Pro Val Asp Pro Asp Asn Glu Ala Tyr Glu Met Pro 120 125 Ser Glu Glu Gly Tyr Gln Asp Tyr Glu Pro Glu Ala 135 <210> 2 <211> 35 <212> PRT <213> Homo sapiens <400> 2 Glu Gln Val Thr Asn Val Gly Gly Ala Val Val Thr Gly Val Thr Ala 10 Val Ala Gln Lys Thr Val Glu Gly Ala Gly Ser Ile Ala Ala Thr . 20 25 Gly Phe Val 35 <210> 3 <211> 28 <212> PRT <213> Homo sapiens <400> 3 Lys Glu Gln Val Thr Asn Val Gly Gly Ala Val Val Thr Gly Val Thr 10 Ala Val Ala Gln Lys Thr Val Glu Gly Ala Gly Ser <210> 4 <211> 13 <212> PRT <213> Influenza virus <400> 4 Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr 5 <210> 5

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Asp Gln Ser Ile Gly Asp Leu Ile Ala Glu Ala Met Asp Lys Val Gly
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Asn Glu Gly
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Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu
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<213> Clostridium tetani
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
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<213> Clostridium tetani

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                                  10
Ala Ser His Leu Glu
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Lys Glu Gln Val Thr Asn Val Cys Gly Gly Ala Val Val Thr
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Ser Ala Ser His Leu Glu
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Ala Ser His Leu Glu 35

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Gly Arg
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            20
Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Phe Asn Asn
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40

Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu Xaa Xaa Xaa Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg 90 Val Pro Lys Val Ser Ala Ser His Leu Glu <210> 30 <211> 77 <212> PRT <213> Artificial Sequence <220> <223> Fusion protein <220> <221> MISC FEATURE <222> (1)..(77) <223> X = NAC peptide <400> 30 Xaa Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val 20 25 Ser Ala Ser His Leu Glu Xaa Gln Tyr Ile Lys Ala Asn Ser Lys Phe 35 40 Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Trp

Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Try
50 55 60

Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu Xaa 65 70 75

<210> 31 <211> 16 <212> PRT <213> Artificial Sequence <220> <223> Fusion protein

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Ala His Ala Glu Ile Asn Glu Ala Gly Arg
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<210> 33
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Gly Leu Met Val Gly Gly Val Val Ile Ala Thr
<210> 34
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1 5
Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
<210> 36
<211> 43
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Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
<210> 37
<211> 22
<212> PRT
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Glu Phe Arg His Asp Ser Gly Gln Tyr Ile Lys Ala Asn Ser Lys Phe
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Ile Gly Ile Thr Glu Leu

Ile Gly Ile Thr Glu Leu 20 .

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<210> 38
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Phe Arg His Asp
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<210> 39
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Glu Phe Arg His Asp Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala
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Ala Ala
<210> 40
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His Asp
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Asp Ala Glu Phe Arg His Asp Ile Ser Gln Ala Val His Ala Ala His
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Ala Glu Ile Asn Glu Ala Gly Arg 20

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Ala Glu Ile Asn Glu Ala Gly Arg
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Ala Glu Ile Asn Glu Ala Gly Arg
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Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg
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                                25
His Asp
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<210> 46

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<211> 27
<212> PRT
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Asp Ala Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu
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Lys Leu Ala Thr Asp Ala Glu Phe Arg His Asp
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Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu
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Ala Thr
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Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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<223> Fusion protein

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Lys Val Ser Ala Ser His Leu Glu 55 50

<210> 51

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<400> 51

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<212>

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PRT <213> Homo sapiens

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